

Validated Soil/Sediment Levels Compared to Screening Levels

Metal levels in eleven sediment samples collected on August 11, 2015 from the Animas River do not exceed the Recreational Screening Levels that were adopted by Regions 6, 7, 8 to protect recreational users of the Animas River. Samples are 5 point composites. Each composited aliquot was collected from a depth of 0-2 inches and homogenized in the field. Course mineral fractions and biological material were removed to the extent practical in the field.

Table 1. Screening levels and number of exceedances of sediment collected on August 11, 2015 in the Animas River, Colorado

Analyte	Recreational Screening Level (mg/kg)	Number of Recreational Screening Level Exceedances	Sediment Range (mg/kg dw)
Aluminum	3,300,000	0	3720-7410
Arsenic	4200*	0	3.69-21.7
Barium	670,000	0	58.3-167
Beryllium	6700	0	nondetect
Cadmium	1700	0	1.72-3.58
Chromium (Total)	4,300,000	0	2.53-6.18
Cobalt	1000	0	7.43-15.7
Copper	130000	0	36.8-82.9
Iron	2,300,000	0	10500-34700
Lead	20,000*	0	86.8-496
Manganese	160,000	0	1300-3650
Mercury	1000	0	0.01-0.05
Nickel	67,000	0	4.68-11.6
Thallium	33	0	Nondetect- 1.91
Vanadium	830	0	11-19.6
Zinc	50,000	0	566-1360

*Screening levels for lead and arsenic include site-specific adjustments for bioavailability